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TITLE : FORMATION OF METALLIC FILM ON ORGANIC SUBSTRATE SURFACE

ABSTRACT : PURPOSE: To attach a metallic film firmly to an org. substrate by irradiating the substrate surface with a light of wavelength activating bonding, further applying an amine soln. and then forming a metallic film by a vapor deposition method.

CONSTITUTION: The surface of an org. substrate is irradiated with a light having an energy equivalent to the binding energy of the substrate surface. The light activates the substrate surface to form a functional group such as -OH. The amine group of an amide soln. reacts with the functional group such as -OH to form an amide group. Since the amide group is highly reactive with the metal, the metallic film is firmly attached to the substrate surface. When the substrate surface is heat-treated or treated with plasma after the amine soln. is applied, the formation of the amide group is promoted more surely and preferably.

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